

#### OBTAINING A PATENT.

It is generally supposed that the patentee of an article, process or new invention has a sure thing and an easy means of gaining wealth. on account of the successes made by a few for-tunate inventors. The general public is not aware of the uncertainty and tedious delay which an applicant for patent has to experience before his papers are considered by the patent office in the first stage. To such an extent is this the case, that after a patent to be busy. has been applied for, it generally takes from six to nine months before it can be considered. It is not therefore wise for the inventor to place his invention on the market until he has had his invention passed upon and accepted for patent. If he does so, and marks it patent applied for," that does not protect him from infringement by from the large quantities of ere piled makers of a similar article produced with slight changes. He has not obtained his patent, and cannot prosecute or stop such infringement of his rights. On this account the most necessary invention which our inventive geniuses of the patent producing fraternity can originate at the present time is a new patent process for the complete reorganizations of our slow and unbusiness like system of conducting the issue of patents in the United States patent office. As the last thing any government has been known to do is to effect a reform in for many of our most intelligent readers and patrons, we are compelled to ore. worked officials of this branch of the public service to the valuable use the inventors of this country can put their inventive abilty to, in perfecting a new process or machine for aiding and expediting the at present slow process of patenting an invention. Life is too short in most instances, but it is too long to receive the benefit of his invention, or until his invention is protected by law. In regard to this matter, the great inventor, Thomas A. Edison, has had some experience which he can apply to electrify the system of passing on patents, and thereby become the greatest inventor of the age.-Mining and Maullurgical Journal.

#### PROSPERITY.

"Speaking from a mining and smelting standpoint, I find that the west is surely more prosperous today than at any time since the depression, or great decline in silver, in June, 1893," said Simon Guggenheim, general manager of the Philadelphia Smelting and Refining company. "There is no apparent reason why the whole mining section should not continue to prosper, even though the price of metals is somewhat depressed.
"It is true that not many new camps

of importance are being discovered or developed, yet the mines that have been in existence for years are today making satisfactory profits, and there still exist many bonanzas, which show people present. not only a large source of revenue to the owners, but give employment to

#### EXTRA LATERAL RIGHTS.

The recommendations of the international mining congress as to extra lateral rights will be awaited with interest. The propostion to do away with such rights in the future and limit the ownership of a vein to the geographical lines of a mining prop-erty has a strong following, while the preservation of the present rule will be stoutly insisted upon.
Since the decision in the Niagara-

Blackrock case the champions of the present system have gained ground. If that decision is not materially modified by the future action of the supreme court, litigation growing out of extra lateral claims will be confined chiefly to the question as to coatinuity of vein, whereas it was formerly necessary to split hairs in fine scien-

gerealizations Had the Amy-Silversmith decision remained the rule of action, and extra lateral rights made dependent upon the relation of the apex to the end lines, the advocates of a plan to make all the boundaries of a claim final meets Gomez (7,000 men) would have been reinforced by the inpulsed with great losses. telligent mining men of every state. But the right to follow the dip of a vein under the side line, even if its tain General Campos.

apex follows the same course, gives February 12—Eighteen thousand to the mine owner all that he could se-

cure by having greater width of claim. It is a good regulation that limits the size of a mining claim to its present dimensions. With extra lateral rights assured it is wide enough, and will contend that 1,500 feet is not ample length for all practical pur-poses. It is not always possible to so locate a claim that the discovery vein will extend through its end lines. To do this would sometimes require an amount of exploitation rot justified outside the discovery shaft. This prerision, made necessary by the findings in the Amy-Silversmith case, is made succeeds Maceo. sary by the Magara-Black-To enlarge claims to a square, sav 1,500x1,500, would be to add mereof useless ground in ninety-nine cases

out of every hundred. The agitation over the question that has been going on for some years, ment at Madrid granting autonomy to however, cannot fail to find expression Cubain the mining congress In view of the intellectual growth of the supreme court of the United States, and its broader comprehension of the equities of mining, we trust the international

mining congress will settle the apex question by letting well enough alone. -Western Mining World.

NUGGETS FROM THE HILLS.

The King of Arlzona mine near Yuma has a cyanide plant.

Ground is being graded for the Qualey Bros', smelter at Safford Gra-

Yavapai county has 390 stamps in place of which at least 259 are known

Negotiations are under way for the erection of a twenty-stamp mill at the Yellow Dog mine near Yuma.

A 120-ton cyanide plant is soon to be erected to work the tailings from the Mammoth mill in Pinal county.

up on the dumps.

A new and very rich strike of ore is reported in new ground to the north of the main workings of the Azurite copper mine near Tacson.

The Arizona Copper company at Clifton proposes to add to its present great reduction works two 150-ton con centrators and a new furnace

The Fresnal mines of Wicks and the Allisons, in the Baboquivaris, are turning out ore runnning \$1,100 gold and 277 ounces silver to the ton.

The Williams Smelting company has the civil service for the benefit of suf-fering humanity, and as we desire it condition as to permit the use of their

> ing for water with which to run all stamps.

> The Old Dominion Copper company of Globe will start up its smelter with a new engine and blower as soon as the rathroad renches Globe, which will be some time in this month.

> The Smepstail mine near the Colorado river in Mohave county, is keeping ten stamps supplied with ore yielding eight ounces of gold and seventy

to eighty onness of silver to the ton. To give our miners an idea of how they drill elsewhere in cortests we print the following note of the drilling comest at Victor, Colorado: of the best contests ever had in Victor took place the Fourth in the anqual drilling match as one of the features of the big celebration. drilling was in Gunnison granite. Only members of the miners' union were permitted to contest. The following were the results: Lamb and McKenzie, 35 5-16 inches: Shea and Fuller, 26 16-100 inches; Mailard and Carbonau, 35% Inches; Lyons and McCullough, 36 9-16 inches, first prize; Lindquist and Lundburg, the terrible Swedes, and last year's champions, 36 3-10 inches; Sabbo and Crawford ,36 5-16 inches, second prize. The prizes were \$200 and \$100 This was one of the greatest celebrations ever held in the district. There were over 20,000 the district. There were over 20,000 the district in Spenish provinces. Oreconst of Spain.

The second prize is the Philippines.

May 3—President names major and brigadier-generals of volunteers. Serious riots in Spenish provinces. Oreconst of Spain.

## CHRONOLOGY

1895.

February 24-Insurrection breaks out in three of Cuba's six provinces. March 1-Fourteen hundred additional troops sent to Cuba.

March 31—General Antonio Maceo

proclaimed commander of the insurgent army. April 13-Flor Crombst, insurgent

leader, killed at Palmerito.

April 14—Captain General Cajella

displaced by Campos.

May 14—Battle of Guantanamo; 400

Spanish killed by insurgents under

alry repulsed at Rios.

November 17—General Maceo near
Santa Clara with 1,900 men defeats

2,800 Spanish troops.

December 23—Campos (10,000 men) meets Gomez (7,000 men) and is re-

1896. February 10-Weyler displaces Cap-

new Spanish troops sent into the field. February 17-Weyler issues his re-March 1—The trocha is established.

Commodore Schley, salied under secret orders from Hampton Roads. concentrado proclamations.

April 11-Maceo crosses the trocha with 3,000 men and drives back the July 9-11-Gomez wins the battle of

Najasa after fifty hours' fighting.
October 1—The rebellion up to this time has cost Spain 250 million dol-wounding of five others, while cutting December 4-General Antonio Maceo

1897

assassinated.

peaceful mission.

personalities refle c ting on President formed.

harbor and 266 1 1 ves lost.

February 22—1 pa nish board of in-pury reports the destruction of the Maine an accider t of internal origin. March 9-Emer, genicy bill, 50 million dollars, for Unit ed States coast de-

March 28-The president sends nessage with the el Maine report to congress April 9-Genen il Fitzhugh Lee and

ther consuls has ve Cuba.

April 11—There resident sends a mesintervention in C uba. April 15—War department orders regular troops to the coast.

April 16—The intervention resolu-

tions passed by 11 ie senate. April 19—The house passes the in-tervention resolut ions. The president prepares an ultimatum to Spain demanding the evas uat ion of Cuba with-

in three days.

April 20—The Cuban resolutions signed by the president. Spanish minister, Polo y Ben as be, asks for his

April 21-The United States minister, General West dford, is given his passports in Ma irid. Spain's sever-

be a declaration of war.

April 22—Nobt: Atlantic squadron sails to blockade Cuban ports. First shot fired, when the United States gunboat Nashvills captured the Spansh coast traders I uema Ventura. Pres-April 23-The president's call issued for 125,000 volunt : crs.

the Saturnina by he Winona,
April 25—Congress declares war.
Secretary of State Sherman resigns.
Mangrove captures the Panama.

Secretary of state:

April 27—Asia: squadron sails from Hong Kong to meet the Spanish fleet at the Philip ine islands. United States cruisers New York, Cincinnati June 7—Sampson reports silencing and resulter Breiters the heart of the secretary of states. States cruisers New York, Cincinnati June 7—Sampson reports silencing and monitor Purit in silence the batteries at Matanza. The United States Monterey salled from San Francisco monitor Terrors otured the Spanish for Manila.

June 11—The American flag floating

April 28.-Unit 1 States gunboat over Guantanamo. Newport captured the Spanish sloop June 12—First land meeting at Engarda. Spanish forts at Cabannas Guantanamo between Spanish guerillas demolished by gins of the flagship and marines. New York.

and the Oregon and Mariettaat Rio de Janerio.

molished by Dewey. Fourteen vessels of the enemy stroyed, about 400 June 15—The house voted for annexation of Hawali by a vote of 209 to 91.

June 16—Sampson still hambandien killed and several hundred injured.
Not an American vessel injured nor an American life lost, and only six men slightly injured. Admiral Montejo of the Spanish fleet admits total defeat.

May 2—Congress appropriated \$35,May 2—Congress appropriated \$35,May 2—Congress appropriated \$35,The American cavalry and "Rough every modern appliance for the successful and cheap treatment of ores and concentrates. Consignments and correspondence solicited. Advances will be made on orea.

sent to the president for signature.

Martial law proclaimed in Madrid.

Eight transports ordered to Tampa McClint for army of invasion. Dewey holds

ous riots in Spraish provinces. Ore-gon (United States battleship) sailed June 28—Capi

May 4—Admiral Sampson's fleet to put back into San Juan, disabled.

for war uses. The Arizona troops leave Prescott for the front. May 5-The French liner Lafayette captured and turned loose.

May 7—Commocore Dewey's report

on battle of Manila received. May 9-Congress passes vote of thanks to Dewey and makes him rear

May 10.—Cape Verde squadron re-ported anchored at Cadiz. Oregon at

May 11.—Troops breaking camp at Santiago. First Manila expedition Chickamauga preparatory for transportation south. Spanish torpedo boat drone islands and capturing the Spanish destroyer Destructor blown up at Gib- ish officers there. raltar.

May 12 .- News was received of ar-May 15—Insurgents make important captures at Bayamo.

May 19—Insurgent leader, Jose Marti, killed at Dos Rics.

May 21—General Gomez and 700 cav
May 21—General Gomez and 700 cavtacked by Spanish harteries and gun-boats. Ensign Bagley and four of the Winslow's crew killed, and town of Cardenas was shelled own engagement reported at Cienfuegos, in which the Americans were said to have been

repulsed.
May 13.—Rear Admiral Sampson reported that he had bombarded the forts at San Juan, Porto Rico, with a loss of two men killed and six wounded, the American squafron being uninjured. The flying squadron, under

May 14.-The Spanish fleet was reported at Curacoa, off-the Venezuelan coast, and Admiral Sampson was off Puerto Plata, Hayti. American report of Cienfuegos affair reached Key West and told of the killing of Reagan the cable in Cienfuegos bay, in small open boats, under hot Spanish fire. The Marblehead, Nashville and Winkilled by treachery.

The Marblehead, Nashville and Windom took part, razing the Spanish de-

fenses there. August 8—Premier Canovas of Spain reached Charleston, S. C. Rear Admiral Devey reported the capture of October 2—Weyler recalled by the Spanish revenue cruiser at Manila, Sagasta liberal ministry on pressure from the United States.

Spanish revenue cruiser at Manila, and that he could still hold the bay. Spanish cabinet resigns. Steamer Gus-November 27-Decree from govern- sie failed to land on coast of Cuba.

May 16.—Spanish squadron at Cura-coa. The naval department shuts off news. France disclaims hostility. May 18.—Battleship Oregon safe af-January 24—United States battleship Maine ordered to Havana on a ter 13,000 mile cruise. Craiser Charleston sailed from Mare Island for the ton sailed from Mare Island for the February 10-De Lome, Spanish Philippines. Schley's squadron at 80 W. Weshington St., Phoenix, Arizona

minister, recalled 1 for unwarranted Key West. New Spanish ministry

May 19.—Spanish squadron reported 15—' I he United States landed at Santiago de Cuba. Cruiser battleship Maine blown up in Havana Charleston returned to Mare Island arbor and 266 l i ses lost. for slight repairs. Arangements made for exchange of prisoners.

February 20-3 ps mish cruiser Viz-caya anchors off Staten Island, N. Y. February 22-3 pa nish board. N. Y. May 21—The monitor Monitor

May 22-Cruiser Charleston sailed from San Francisco for Manila.

May 23—The British steamer Ar-

danmore seized by the auxiliary gunboat Osceola and brought to Key West as a prize, and then released. Troops embarked on City of Peking

at San Francisco for Manila.

May 24—Battleship Oregon arrives
at Jupiter Inlet, Florida.

May 25—President issues call for April 11—Theor resident sends a mes-sage to congress recommending armed [75,000 more volunteers. The City of Intervention in C ubs. Manila with troops.

May 26—Oregon arrived at Key

May 27.-It was reported that Cervera with the Spanish Cape Verde fleet was bottled up in Santiago, as had been thought.

May 28.—The cruiser Columbia was damaged off Fire Island by collision with the steamer Foscolia, the latter sinking. May 29.—Commodore Schley report-

ed sighting the Spanish fleet or part of it in Santiago harbor. May 30.—General Shafter was or-dered to embark 15,000 or more troops at Tampa. Santiago was thought to

ance of diploma ic relations held to be their destination. June 1.—Troops that sailed for

Guantanamo from Key West under command of Col. Lacret landed on Cuban soil. Santiago reported stormed. June 3.—Report of storming of San-tiago turns out to be but a reconident's proclamation to all nations de-olaring the blockide of Cuban ports. der of Sampson.

June 4.-Report from Sampson that April 24—Spain's first shot at United
States from mask? d batteries at Matanzas on the United gunboat Foote.
Capture of the Cat dina by the Detroit, the Candida byžt he Wilmington and captured after sinking the Merrimac as an obstruction in the harbor. rangements under way for their exchange. W. J. Bryan's regiment accepted by the government.

June 5—Steps taken to expel Lieu-

The White Hills Mining company of Mohave county is now running but fifteen of its forty stamps, but is boring for water with which to a state of states ports. We lam R. Day made destroyer "Terror" reported destroyed.

New York.

April 30—The Paris in New York and the Organical Americans lost four have landed near Santiago de Cuba. June 13-The president signed the was revenue bill.

Major Brodie and Captain McClintock among the wounded.

June 26-Camara's fleet reached

tenders islands to the United States allow Camara's fleet to coal at Port Said. July 1—Engagement near Santiago, rumored estimate of American loss 500. Captain William O'Neill of Ari-

zona among the killed. July 2.—The Spaniards made unsuc-cessful efforts to retake San Juan. Admiral Sampson continues shelling

Morro castle, doing great damage.

July 3.—Destruction of Cervera's fleet outside of Santiago harbor. General Shafter demands surrender of Santiago. . First Manila expedition joins Dewey, after stopping at the La-

July 6 .- Hawaii annexed. July 7 .- General Miles sails for

CHEAP EXCURSION TO CIAY OF

On July 7th for only \$65.40 the Southern Pacific will sell round trip tickets to the City of Mexico, good returning August 21st, with stop over privileges in either direction at all points. This is the best season of the year to visit Mexico. Take your overcoat, you will need it, and purchase your ticket via the Phoenix Short Line, 400 miles the shortest route, For further particulars call on M. & P. agents

Beauty Is Blood Deep.

Beauty is Brood Deep.

Clean blood means a clean skin. No beauty without it. Cascarets, Candy Cathar tic clean your blood and keep it clean, by stirring up the lazy liver and driving all impurities from the body. Begin to-day to banish pimples, boils, blotches, blackheads, and that sickly bilious complexion by taking Cascarets,—beauty for ten cents. All drug gists, satisfaction guaranteed, 10c, 25c, 50c.

# By E. M. DEPEW & Co.

Agent for the Baker & Hamilton Special, 235.60, fully guaranteed. New light running wheels for rent. The bicycle path is free to our customers. Center Street. Opposite Hotel Adam

R. SILVA A.

## GATES IRON WORKS

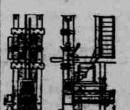
MANUFACTURE

Imperial Mining Machinery,

Established 55 years.

GATES ROCK and ORE BREAKERS. GATES IMPERIAL VANNERS. GATES HIGH GRADE ROLLS. **GATESSmelters and Concentrators** 

CYANIDE AND CHLORINATION MACHINERY 650 Elston Ave., Chicago.



firmer immer

#### FRASER & CHALMERS,

151 Pulton Street, Chicago, W

Our Frue Vanner still leads all Concentrators. Catalogues free en Heists, Stamps, Smelters, Tramways, Crushers, etc. Estimates on request.

### PHOENIX FOUNDRY and MACHINE WORKS

23 to 27 North Second Street.

COPELAND & McCALLUM, - -- Proprietors

Machinery, Supplies and Castings.

Machinery of all kinds Built and Repaired.

# FOUNDRY

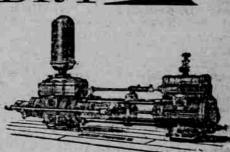
IRON WORKS

Makes everything in

IRON and BRASS. Machine Work of all

kinds, and General

Repairing, Telephone 97.



South Seventh Avenue.

### STANDARD IRON WORKS,

Phoenix, - - - Arizona.

The Largest Foundry in Arizona. & Builders of Mining and Milling Machinery. & Shoes and Dies a Specialty.

SILVER CITY REDUCTION CO.,

Silver City Grant Co., New Mexico This plant has been purchased and will be operated in the future by the estate of the late Senator George

Phenix & Cave Creek Stage TALBOT & HUBBARD Leaves Mondays and Fridays for Cave Creek and Phomix Mine. Special attention given to passengers and baggage. I save orders as Golden Eagle States C. M. STURGIS, Prop.

PREPARE FOR A HOT TIME

By getting a

BLUE FLAME GASOLINE STOVE\_

Have them.

#### Engineering **Electrical**

34-36 Main Street,

SAN FRANCISCO, CAL.

Manufacturers of all kinds of

# Electric Machinery

Mines, Mills & Hoists.

OUR PRICE, \$50.

W. H. Robinson Agent,

No. 18 North Center Street

Denver Fire Clay

Assayers'

Chemists' Supplies.

Fire Brick and Tile for Metallurgical Purposes. Importers and dealers in chemicals and apparatus. Sole agents for the Ainsworth Balances.

742-46 Champa St., Denver, Colorado.